ELECTRICAL LEGEND

- DRAWING NOTE (APPLIES TO THIS DRAWING ONLY)
- DETAIL, SECTION OR ELEVATION NUMBER / DRAWING NUMBER
- REVISION NUMBER - CLOUDED AREA ON DRAWING CONTAINS REVISION
- RACEWAY - 2 #12, 1 #12 GW IN 3/4" CONDUIT, U.O.N.
- HOMERUN TO PANELBOARD - ARROWS INDICATE NUMBER OF CIRCUITS SLASHES INDICATE CIRCUIT CONDUCTORS NO SLASH INDICATES TWO CIRCUIT CONDUCTORS PROVIDE GROUNDING CONDUCTOR, NOT SHOWN
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT TERMINATION
- UPPER CASE - FIXTURE TYPE (TYPICAL FOR ALL LIGHTING FIXTURES) - SEE LIGHTING FIXTURE SCHEDULE
- LIGHTING FIXTURE: DOWNLIGHT, 2' x 4' & 2' x 2'
- LOWER CASE - INDICATES CONTROLLING SWITCH(ES) (TYPICAL FOR ALL LIGHTING FIXTURES)
- FLUORESCENT LIGHTING FIXTURE
- FLUORESCENT LIGHTING FIXTURE, INDUSTRIAL TYPE
- LIGHTING FIXTURE ON EMERGENCY CIRCUIT / BATTERY BACKUP
- LIGHTING FIXTURE, WALL MOUNTED - SEE LIGHTING FIXTURE SCHEDULE
- EXIT LIGHT - DARKENED SECTION INDICATES FACE WITH DIRECTIONAL ARROWS AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
- SELF-CONTAINED, BATTERY POWERED EMERGENCY LIGHT WITH TWIN LAMPHEAD. SEE LIGHTING FIXTURE SCHEDULE
- TOGGLE SWITCH TO BE DEMOLISHED
- SINGLE POLE TOGGLE SWITCH - SUBSCRIPT INDICATES FIXTURES CONTROLLED BY THE SWITCH (TYPICAL FOR ALL LIGHTING SWITCHES), 48" A.F.F., U.O.N.:
  - 3 - THREE WAY TOGGLE SWITCH,
  - 4 - FOUR WAY TOGGLE SWITCH,
  - D - DIMMER SWITCH, K - KEY SWITCH,
  - P - PILOT LIGHT, T - TIMER,
  - O - WALL MTD. OCCUPANCY SENSOR,
  - WP - WEATHERPROOF, LV - LOW VOLTAGE,
  - EPO - EMERGENCY POWER OFF
- PHOTOELECTRIC CONTROL
- TIME CLOCK
- JUNCTION BOX: CEILING, WALL OR FLUSH-FLOOR MOUNTED
- DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN RECESSED OUTLET BOX, 18" A.F.F., U.O.N.:
  - "x" NUMERIC DENOTES MOUNTING HEIGHT.
  - WP - WEATHERPROOF, MW - MICROWAVE,
  - GFI - GROUND FAULT CIRCUIT INTERRUPTER,
  - RE - REFRIGERATOR, CM - COFFEE MAKER,
  - TC - TELECOM, DW - DISHWASHER,
  - IG - ISOLATED GROUND
- DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTERTOP BACK SPLASH UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN SURFACE OUTLET BOX, SURFACE MOUNTED, 18" A.F.F., U.O.N.
- TWO DUPLEX RECEPTACLES WITH COMMON FACEPLATE 2P, 3W, 2OA, 125V, NEMA 5-2OR IN RECESSED TWO-GANG OUTLET BOX, 18" A.F.F., U.O.N.
- TWO DUPLEX RECEPTACLES WITH COMMON FACEPLATE IN SURFACE OUTLET BOX, SURFACE MOUNTED, 18" A.F.F., U.O.N.
- AUTOMATIC TEMPERATURE CONTROL PANEL
- SPECIAL RECEPTACLE, 18" A.F.F. U.O.N. (TYPE AS NOTED)
  - 1 - RANGE: NEMA '14-5O' RECEPTACLE, 3O" A.F.F.
  - 2 - DRYER: NEMA '14-3O' RECEPTACLE, 3O" A.F.F.
  - 3 - SERVER RACK: NEMA 'L6-3OP', 3OA, 2O8V.
- PANELBOARD, RECESSED OR SURFACE MOUNTED
- ELECTRICAL MOTOR
- S_M MOTOR SWITCH WITH THERMAL OVERLOAD
- COMBINATION MAGNETIC MOTOR STARTER WITH MCP OR FUSIBLE DISCONNECT SWITCH
- MAGNETIC MOTOR CONTROLLER/STARTER
- FUSED DISCONNECT SWITCH, UPPER NUMERAL INDICATES SWITCH SIZE, LOWER NUMERAL INDICATES FUSE SIZE
- NONFUSED DISCONNECT SWITCH, NUMERAL INDICATES SIZE
- FIRE ALARM VISUAL DEVICE, SUBSCRIPT DENOTES CANDELA RATING, 8O" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
- FIRE ALARM SPEAKER/HORN WITH VISUAL DEVICE,

ELECTRICAL ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ANSI	AMERICAN NAT'L STANDARDS INSTIT.
ASYM	ASYMMETRICAL
ATC	AUTOMATIC TEMPERATURE CONTROL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
CX	CONNECT TO EXISTING
DB	DIRECT BURIAL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRIC / ELECTRICAL
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FA	FIRE ALARM
FAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
F	FUSED OR FUSIBLE
FLA	FULL LOAD AMPERES
FSS	FUSED SAFETY SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GW	GROUND WIRE
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MT HT	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
NF	NON-FUSED
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH or ∅	PHASE
P	POLE
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RM	ROOM
RX	REMOVE EXISTING
SW	SWITCH
SCHED	SCHEDULE
SD	SMOKE DAMPER
SEC	SECONDARY
SFA	SPRINKLER FLOW ALARM
SS	SAFETY SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERUPTIBLE POWER SYSTEM
V	VOLT
VPS	VALVE POSITION (TAMPER) SWITCH
W	WIRE
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LENS/ LOUVER	MOUNTING	VOLTS	LAMP DATA NO.	LAMP DATA WATTS	LAMP DATA CODE	MANUFACTURER & CATALOG NO.	NOTES
A	4' LINEAR INDUSTRIAL STRIP LIGHT	WIRE GUARD	CC	120	2	32	32W T8	COLUMBIA K4-232-EU-CSWG4 OR APPROVED EQUAL	1
A1	4' LINEAR INDUSTRIAL STRIP LIGHT WITH BATTERY BACKUP	WIRE GUARD	CC	120	2	32	32W T8	COLUMBIA K4-232-EU-CSWG4-EL OR APPROVED EQUAL	1

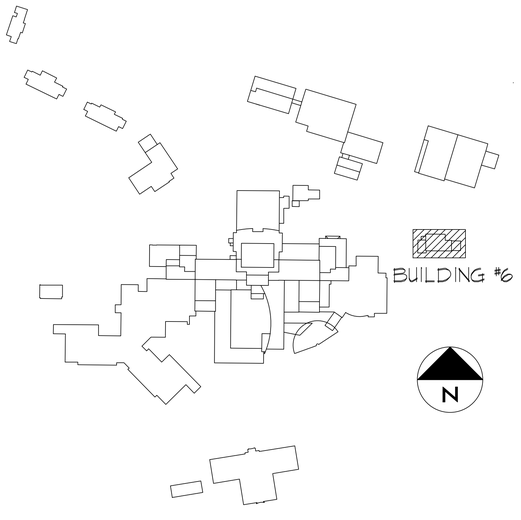
MOUNTING:
CS - CEILING, SURFACE
CR - CEILING, RECESSED, ACT
CC# - CEILING, SUSPENDED, # FEET A.F.F.
CG - CEILING, RECESSED, GYPSUM BD.
WS# - WALL MTD., SURFACE, # FEET A.F.F.
WR# - WALL, RECESSED, # FEET A.F.F.
UC - UNDER CABINET

LIGHTING FIXTURE NOTES:

1 MOUNTING HEIGHT AS INDICATED ON DRAWING.

GENERAL NOTES:

1. EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM RECORD DRAWINGS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. PATCH AND SEAL ALL REMAINING OPENINGS THROUGH FLOORS AND WALLS RESULTING FROM DEMOLITION OR NEW WORK WITH MATERIALS AND FINISHES TO MATCH EXISTING CONSTRUCTION AND TO MAINTAIN FIRE RATING.
3. CONTRACTOR SHALL STORE AND PROTECT ALL EQUIPMENT, CONDUCTORS, AND CONNECTIONS TO BE RELOCATED OR RE-INSTALLED.
6. ALL WIRING PASSING THROUGH AREA OF DEMOLITION WHICH IS NOT PART OF DEMOLITION SHALL REMAIN IN SERVICE. MODIFY SUPPORTS AS REQUIRED. MAINTAIN THE LIGHTING CIRCUITS AND FIRE ALARM SYSTEM SERVING AREA BEYOND SCOPE OF WORK.
7. CONTRACTOR SHALL RING OUT EXISTING CIRCUITS TO DETERMINE WHICH BRANCH CIRCUITS ARE NO LONGER IN USE. CONTRACTOR SHALL REMOVE BRANCH CIRCUIT WIRING DETERMINED NO LONGER IN USE BACK TO SOURCE IN ITS ENTIRETY. REMOVE EXISTING ABANDONED WIRING.
8. ALL WORK IN OCCUPIED SPACES, INCLUDING BUT NOT LIMITED TO CORRIDORS, SHALL BE PERFORMED OFF-HOURS AND SPACES SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT COMPLETION OF WORK IN THOSE AREAS.
9. CIRCUIT NUMBERS INDICATED ARE FOR CLARIFICATION OF GROUPING ONLY. ADJUST CIRCUIT NUMBERS TO COORDINATE WITH ACTUAL CIRCUIT BREAKERS USED.
10. PROVIDE A NEW TYPED SCHEDULE FOR ALL PANELBOARDS AFFECTED BY THIS WORK.
11. PLAN AND EXECUTE WORK TO MINIMIZE OUTAGES. NOTIFY OWNER AND OBTAIN WRITTEN AUTHORIZATION OF ANY WORK REQUIRING AN OUTAGE MINIMUM TWO WEEKS (TEN BUSINESS DAYS) PRIOR TO PLANNED OUTAGE.
12. OUTAGES REQUIRED FOR REPLACEMENT OF PANELBOARDS SHALL BE SCHEDULED BETWEEN THE HOURS OF 1600 ON FRIDAY AND 1600 ON SUNDAY. SUBMIT PLANNED OUTAGE SCHEDULE TO COTR AND OBTAIN WRITTEN APPROVAL MINIMUM 2 WEEKS (10 BUSINESS DAYS) PRIOR TO PLANNED START OF OUTAGE.
13. EXTEND EXISTING LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND AS SPECIFIED TO ENCOMPASS NEW MECHANICAL EQUIPMENT AND EXTERIOR AIR DEVICES. PROVIDE UL MASTER LABEL AS SPECIFIED.
14. ALL CONDUIT, DEVICES, AND OTHER METAL BODIES INSTALLED WITHIN THE BONDING DISTANCE OF EXISTING AND NEW LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL BE BONDED TO SAME IN ACCORDANCE WITH NFPA 780.



KEYPLAN

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Drawing Title: ELECTRICAL NOTES, LEGEND, SCHEDULE, AND ABBREVIATIONS
Approved: Associate Director for Operations:
Approved: Chief, Facilites Engineer:
Approved: Director, Medical Center:

Project Title: REPLACE BUILDING 6 HVAC
Building No: 6
Checked: RAM
Drawn: JDS
Location: VAMHCS MEDICAL CENTER WILMINGTON, DELAWARE

Date: 07/09/2012
Project No: 460–12–204
DRAWING NO: E-0
Dwg. 15 Of 21

DEPARTMENT OF VETERANS AFFAIRS

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